

IBM z15 and IBM LinuxONE III deliver new feature numbers

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Overview

The IBM[®] zSystems platform continues to expand its security capabilities that businesses require as they digitally transform their enterprises.

Important upgrade information: TKE 10.0 level of LIC

The main purpose of TKE 10.0 is to provide support for managing Crypto Express 8S (CEX8S), which is available only on the IBM z16[™]. Crypto Express 8S is not available on IBM z15[™] or LinuxONE III.

Clients on an IBM zSystems server that does not support Crypto Express 8S may still want to take advantage of moving to TKE 10.0 to prepare for a future processor or pick up new TKE features that are not specific to the Crypto Express 8S.

You can upgrade from the Trusted Key Entry (TKE) 9.x level of the Licensed Internal Code (LIC) to TKE 10.0 with the purchase of a 4770 Crypto Adapter for the TKE. However, you must update your workstation BIOS prior to the upgrade. To do that, you *must* install TKE 9.2 with the latest patches prior to installing the TKE 10.0 firmware.

The TKE 10.0 level of LIC is required if you want to manage the CEX8S using the TKE. In addition, TKE 10.0 uses quantum-safe cryptography¹ when the TKE authenticates CEX8S, derives Transport Keys between the TKE's HSM and the target CEX8S, and during the on-demand HSM dual validation check.

- TKE 10.0 has a domain group limitation. All the HSMs in a TKE domain group must all contain quantum-safe cryptography support (that is, only include CEX8S), or all the HSMs must not contain quantum-safe cryptography support (that is, the HSMs can't include any CEX8S).
- TKE 10.0 now supports one-time use MFA authentication on an open host.
- TKE 10.0 contains Configuration Migration Tasks support to enable you to collect and apply data to and from CEX8S and collect data from a pre-CEX8S HSM and apply it to CEX8S HSMs.
- TKE 10.0 supports a new default wrapping method for the CEX8S HSMs.
- TKE 10.0 added support for a new AES DUKPT key attribute when using TKE to create AES DKYGENKY parts.

TKE 10.0 added support for the EP11 Outbound Authentication (OA) Signature Policy. The EP11 firmware on a CEX8S HSM enables users to configure what OA signatures are returned on responses from the HSM. The TKE OA Signature Policy controls what configuration options you may select when managing the settings from the TKE.

Planned availability date

July 26, 2022

Availability within a country is subject to local legal requirements.

Product number

Description	Machine type	Model	Feature number
IBM z15	8561	T01	
IBM z15 Model T02	8562	T02	
4770 Crypto Adapter			0851

Description	Machine type	Model	Feature number
IBM LinuxONE III	8561	LT1	
IBM LinuxONE III	8562	LT2	
4770 Crypto Adapter			0851
TKE Rack Mount			0057
TKE			0058
TKE Tower			0144
TKE Rack			0145
TKE Rack			0233
TKE Tower			0234
TKE 10.0 LIC			0882

Feature conversions

From		To		Description
Model type	Feature number	Model type	Feature number	
8561	0085	8561	0233	TKE Rack
8561	0086	8561	0234	TKE Tower
8561	0087	8561	0145	TKE Rack
8561	0088	8561	0144	TKE Tower
8562	0085	8562	0233	TKE Rack
8562	0086	8562	0234	TKE Tower
8562	0087	8562	0145	TKE Rack
8562	0088	8562	0144	TKE Tower

Publications

No publications are shipped

To access the IBM Publications Center Portal, go to the [IBM Publications Center](#) website.

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, which can currently be downloaded.

National language support

Not applicable

Services

IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Systems Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Systems Lab Services consultants can perform infrastructure services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Systems Lab Services is designed to help clients solve business challenges, gain new skills, and apply best practices.

Systems Lab Services offers a wide range of infrastructure services for IBM Power^(R) servers, IBM Storage systems, IBM Z^(R), and IBM LinuxONE. Systems Lab Services has a global presence and can deploy experienced consultants online or onsite around the world.

For assistance, contact Systems Lab Services at ibmsls@us.ibm.com.

To learn more, see the [IBM Systems Lab Services](#) website.

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For additional information, see the [IBM Consulting](#) website.

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Get preventive maintenance, onsite and remote support, and gain actionable insights into critical business applications and IT systems. Speed developer innovation with support for over 240 open-source packages. Leverage powerful IBM analytics and AI-enabled tools to enable client teams to manage IT problems before they become emergencies.

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For details on available services, see the [Technology support for hybrid cloud environments](#) website.

IBM Expert Labs

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For additional information, see the [IBM Expert Labs](#) website.

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These services can help clients deploy and integrate IBM Security software, extend their team resources, and help guide and accelerate successful hybrid cloud solutions, including critical strategies such as zero trust. Remote and on-premises software deployment assistance is available for IBM Cloud Pak^(R) for Security, IBM Security QRadar^(R)/QRoC, IBM Security SOAR/Resilient^(R), IBM i2, IBM Security Verify, IBM Security Guardium^(R), and IBM Security MaaS360^(R).

For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the [IBM Security Expert Labs](#) website.

IBM support

For installation and technical support information, see the [IBM Support Portal](#).

Additional support

IBM Client Engineering for Systems

Client Engineering for Systems is a framework for accelerating digital transformation. It helps you generate innovative ideas and equips you with the practices, technologies, and expertise to turn those ideas into business value in weeks. When you work with Client Engineering for Systems, you bring pain points into focus. You empower your team to take manageable risks, adopt leading technologies, speed up solution development, and measure the value of everything you do. Client Engineering for Systems has experts and services to address a broad array of use cases, including capabilities for business transformation, hybrid cloud, analytics and AI, infrastructure systems, security, and more. Contact Client Engineering at sysgarage@ibm.com.

Technical information

Planning information

Cable orders

Not applicable

Security, auditability, and control

The client is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Prices

For all local charges, contact your local IBM representative.

Regional availability

Australia, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, People's Republic of China, Christmas Island, Cocos (Keeling) Islands, Cook Islands, Fiji, Heard Island and McDonald Islands, Hong Kong, India, Indonesia, Kiribati, Republic of Korea, Lao People's Democratic Republic, Macao, Malaysia, Maldives, Mongolia, Myanmar, Nauru, Nepal, New Zealand, Niue, Norfolk Island, Papua New Guinea, Philippines, Samoa, Singapore, Solomon Islands, Sri Lanka, Taiwan, Thailand, Timor-Leste, Tokelau, Tonga, Tuvalu, and Socialist Republic of Viet Nam

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